



IFWP

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/585,884

DATE: 07/20/2006
TIME: 08:41:04

Input Set : A:\50026.059001.txt
Output Set: N:\CRF4\07202006\J585884.raw

```

3 <110> APPLICANT: IWADATE, Yasuo
4      YAMAURA, Akira
5      INOUE, Makoto
6      HASEGAWA, Mamoru
8 <120> TITLE OF INVENTION: Gene Therapy for Tumors Using Minus-Strand RNA Viral Vectors
9      Encoding Immunostimulatory Cytokines
11 <130> FILE REFERENCE: 50026/059001
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/585,884
C--> 13 <141> CURRENT FILING DATE: 2006-07-12
13 <150> PRIOR APPLICATION NUMBER: PCT/JP2005/000238
14 <151> PRIOR FILING DATE: 2005-01-12
16 <150> PRIOR APPLICATION NUMBER: JP 2004-005186
17 <151> PRIOR FILING DATE: 2004-01-13
19 <160> NUMBER OF SEQ ID NOS: 20
21 <170> SOFTWARE: PatentIn version 3.3
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 399
25 <212> TYPE: DNA
26 <213> ORGANISM: Homo sapiens
29 <220> FEATURE:
30 <221> NAME/KEY: CDS
31 <222> LOCATION: (1)..(399)
33 <400> SEQUENCE: 1
34 gca cct act tca agt tct aca aag aaa aca cag cta caa ctg gag cat      48
35 Ala Pro Thr Ser Ser Ser Thr Lys Lys Thr Gln Leu Gln Leu Glu His
36 1          5          10          15
38 tta ctg ctg gat tta cag atg att ttg aat gga att aat aat tac aag      96
39 Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
40          20          25          30
42 aat ccc aaa ctc acc agg atg ctc aca ttt aag ttt tac atg ccc aag      144
43 Asn Pro Lys Leu Thr Arg Met Leu Thr Phe Lys Phe Tyr Met Pro Lys
44          35          40          45
46 aag gcc aca gaa ctg aaa cat ctt cag tgt cta gaa gaa gaa ctc aaa      192
47 Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys
48          50          55          60
50 cct ctg gag gaa gtg cta aat tta gct caa agc aaa aac ttt cac tta      240
51 Pro Leu Glu Glu Val Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu
52          65          70          75          80
54 aga ccc agg gac tta atc agc aat atc aac gta ata gtt ctg gaa cta      288
55 Arg Pro Arg Asp Leu Ile Ser Asn Ile Asn Val Ile Val Leu Glu Leu
56          85          90          95
58 aag gga tct gaa aca aca ttc atg tgt gaa tat gct gat gag aca gca      336
59 Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/585,884

DATE: 07/20/2006

TIME: 08:41:04

Input Set : A:\50026.059001.txt

Output Set: N:\CRF4\07202006\J585884.raw

60	100	105	110	
62	acc att gta gaa ttt ctg aac aga tgg att acc ttt tgt caa agc atc			384
63	Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Cys Gln Ser Ile			
64	115	120	125	
66	atc tca aca ctg act			399
67	Ile Ser Thr Leu Thr			
68	130			
71	<210> SEQ ID NO: 2			
72	<211> LENGTH: 133			
73	<212> TYPE: PRT			
74	<213> ORGANISM: Homo sapiens			
76	<400> SEQUENCE: 2			
78	Ala Pro Thr Ser Ser Ser Thr Lys Lys Thr Gln Leu Gln Leu Glu His			
79	1 5 10 15			
82	Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys			
83	20 25 30			
86	Asn Pro Lys Leu Thr Arg Met Leu Thr Phe Lys Phe Tyr Met Pro Lys			
87	35 40 45			
90	Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys			
91	50 55 60			
94	Pro Leu Glu Glu Val Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu			
95	65 70 75 80			
98	Arg Pro Arg Asp Leu Ile Ser Asn Ile Asn Val Ile Val Leu Glu Leu			
99	85 90 95			
102	Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala			
103	100 105 110			
106	Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Cys Gln Ser Ile			
107	115 120 125			
110	Ile Ser Thr Leu Thr			
111	130			
114	<210> SEQ ID NO: 3			
115	<211> LENGTH: 10			
116	<212> TYPE: RNA			
117	<213> ORGANISM: Artificial			
119	<220> FEATURE:			
120	<223> OTHER INFORMATION: an example of S sequence of Sendai Virus			
122	<400> SEQUENCE: 3			
123	ucccwvuuwc			10
126	<210> SEQ ID NO: 4			
127	<211> LENGTH: 10			
128	<212> TYPE: RNA			
129	<213> ORGANISM: Artificial			
131	<220> FEATURE:			
132	<223> OTHER INFORMATION: an example of S sequence of Sendai Virus			
134	<400> SEQUENCE: 4			
135	ucccaguuuc			10
138	<210> SEQ ID NO: 5			
139	<211> LENGTH: 10			
140	<212> TYPE: RNA			

RAW SEQUENCE LISTING DATE: 07/20/2006
PATENT APPLICATION: US/10/585,884 TIME: 08:41:04

Input Set : A:\50026.059001.txt
Output Set: N:\CRF4\07202006\J585884.raw

141 <213> ORGANISM: Artificial
143 <220> FEATURE:
144 <223> OTHER INFORMATION: an example of S sequence of Sendai Virus
146 <400> SEQUENCE: 5
147 ucccacuuac 10
150 <210> SEQ ID NO: 6
151 <211> LENGTH: 10
152 <212> TYPE: RNA
153 <213> ORGANISM: Artificial
155 <220> FEATURE:
156 <223> OTHER INFORMATION: an example of S sequence of Sendai Virus
158 <400> SEQUENCE: 6
159 ucccacuuuc 10
162 <210> SEQ ID NO: 7
163 <211> LENGTH: 10
164 <212> TYPE: DNA
165 <213> ORGANISM: Artificial
167 <220> FEATURE:
168 <223> OTHER INFORMATION: an example of S sequence of Sendai Virus
170 <400> SEQUENCE: 7
171 agggtcaaaag 10
174 <210> SEQ ID NO: 8
175 <211> LENGTH: 10
176 <212> TYPE: DNA
177 <213> ORGANISM: Artificial
179 <220> FEATURE:
180 <223> OTHER INFORMATION: an example of S sequence of Sendai Virus
182 <400> SEQUENCE: 8
183 agggtgaatg 10
186 <210> SEQ ID NO: 9
187 <211> LENGTH: 10
188 <212> TYPE: DNA
189 <213> ORGANISM: Artificial
191 <220> FEATURE:
192 <223> OTHER INFORMATION: an example of S sequence of Sendai Virus
194 <400> SEQUENCE: 9
195 agggtgaaaag 10
198 <210> SEQ ID NO: 10
199 <211> LENGTH: 9
200 <212> TYPE: RNA
201 <213> ORGANISM: Artificial
203 <220> FEATURE:
204 <223> OTHER INFORMATION: an example of E sequence of Sendai Virus
206 <400> SEQUENCE: 10
207 auucuuuuu 9
210 <210> SEQ ID NO: 11
211 <211> LENGTH: 9
212 <212> TYPE: DNA
213 <213> ORGANISM: Artificial

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/585,884

DATE: 07/20/2006

TIME: 08:41:04

Input Set : A:\50026.059001.txt

Output Set: N:\CRF4\07202006\J585884.raw

215 <220> FEATURE:
 216 <223> OTHER INFORMATION: an example of E sequence of Sendai Virus
 218 <400> SEQUENCE: 11
 219 taagaaaaaa
 222 <210> SEQ ID NO: 12
 223 <211> LENGTH: 10
 224 <212> TYPE: DNA
 225 <213> ORGANISM: Artificial
 227 <220> FEATURE:
 228 <223> OTHER INFORMATION: an example of S sequence of Sendai Virus
 230 <400> SEQUENCE: 12
 231 ctttcaccct
 234 <210> SEQ ID NO: 13
 235 <211> LENGTH: 15
 236 <212> TYPE: DNA
 237 <213> ORGANISM: Artificial
 239 <220> FEATURE:
 240 <223> OTHER INFORMATION: an example of E sequence of Sendai Virus
 242 <400> SEQUENCE: 13
 243 ttttcttac tacgg
 246 <210> SEQ ID NO: 14
 247 <211> LENGTH: 18
 248 <212> TYPE: DNA
 249 <213> ORGANISM: Artificial
 251 <220> FEATURE:
 252 <223> OTHER INFORMATION: an artificially synthesized linker sequence
 254 <400> SEQUENCE: 14
 255 atgcatgccg gcagatga
 258 <210> SEQ ID NO: 15
 259 <211> LENGTH: 18
 260 <212> TYPE: DNA
 261 <213> ORGANISM: Artificial
 263 <220> FEATURE:
 264 <223> OTHER INFORMATION: an artificially synthesized primer sequence
 266 <400> SEQUENCE: 15
 267 gttgagtact gcaagagc
 270 <210> SEQ ID NO: 16
 271 <211> LENGTH: 42
 272 <212> TYPE: DNA
 273 <213> ORGANISM: Artificial
 275 <220> FEATURE:
 276 <223> OTHER INFORMATION: an artificially synthesized primer sequence
 278 <400> SEQUENCE: 16
 279 tttgccggca tgcattttc ccaaggggag agtttgcaa cc
 282 <210> SEQ ID NO: 17
 283 <211> LENGTH: 18
 284 <212> TYPE: DNA
 285 <213> ORGANISM: Artificial
 287 <220> FEATURE:

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/585,884

DATE: 07/20/2006

TIME: 08:41:04

Input Set : A:\50026.059001.txt

Output Set: N:\CRF4\07202006\J585884.raw

288 <223> OTHER INFORMATION: an artificially synthesized primer sequence
290 <400> SEQUENCE: 17
291 atgcatgccg gcagatga 18
294 <210> SEQ ID NO: 18
295 <211> LENGTH: 21
296 <212> TYPE: DNA
297 <213> ORGANISM: Artificial
299 <220> FEATURE:
300 <223> OTHER INFORMATION: an artificially synthesized primer sequence
302 <400> SEQUENCE: 18
303 tgggtgaatg agagaatcag c 21
306 <210> SEQ ID NO: 19
307 <211> LENGTH: 51
308 <212> TYPE: DNA
309 <213> ORGANISM: Artificial
311 <220> FEATURE:
312 <223> OTHER INFORMATION: an artificially synthesized primer sequence
314 <400> SEQUENCE: 19
315 acttgcggcc gcgttaaac ggcgcgccat gtacaggatg caactcctgt c 51
318 <210> SEQ ID NO: 20
319 <211> LENGTH: 63
320 <212> TYPE: DNA
321 <213> ORGANISM: Artificial
323 <220> FEATURE:
324 <223> OTHER INFORMATION: an artificially synthesized primer sequence
326 <400> SEQUENCE: 20
327 atccgcggcc gcgtgaact ttcaccctaa gttttctta ctacggattt aaatggcg 60
329 cca 63

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/20/2006
PATENT APPLICATION: US/10/585,884 TIME: 08:41:05

Input Set : A:\50026.059001.txt
Output Set: N:\CRF4\07202006\J585884.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/585,884

DATE: 07/20/2006

TIME: 08:41:05

Input Set : A:\50026.059001.txt

Output Set: N:\CRF4\07202006\J585884.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date